

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-14 (cancelled)

Claim 15 (new): A Voice/Video over Internet Protocol (VoIP) alarm apparatus for detecting an intrusion by an intruder into a residential, commercial or industrial premise and subsequently establishing an audio VoIP call to a remote device, the VoIP alarm apparatus comprising:

- a) a sensor for detecting the intruder;
- b) a peripheral device that has a first connection to the sensor, the peripheral device having a first processor, a first memory and a microphone, the first connection adapted to the first processor, the microphone adapted to the first processor, the microphone converts sound energy in the physical locality of the sensor to audio information suitable for the first processor, the first processor runs a first control algorithm, the first control algorithm being stored in the first memory;
- c) a system control module that has a second connection to the peripheral device, the system control module having a second processor and a second memory, the second connection adapted to the second processor and to the first processor, the second processor runs a second control algorithm that includes a VoIP call processing algorithm, the second control algorithm being stored in the second memory;
- d) a modem that has a third connection to the system control module, the modem provides an Internet connection;

the sensor detects the intruder and signals the peripheral device through the first connection, the peripheral device subsequently signals the system control module

through the second connection, the system control module subsequently establishes an audio VoIP call through the third connection and through the modem to a remote device accessible through the Internet connection, the audio from the microphone of the peripheral device is sent to the remote device.

Claim 16 (new): A Voice/Video over Internet Protocol (VoIP) alarm apparatus for detecting an intrusion by an intruder into a residential, commercial or industrial premise and subsequently establishing a voice only VoIP call to a remote device, the VoIP alarm apparatus comprising:

- a) a sensor for detecting the intruder;
- b) a peripheral device having a first processor, a first memory and a microphone, the sensor adapted to the first processor, the first memory adapted to the first processor, the microphone adapted to the first processor, the first processor runs a first control algorithm, the first control algorithm being stored in the first memory;
- c) a system control module having a second processor and a second memory, the second memory adapted to the second processor, the first processor adapted to the second processor, the second processor runs a second control algorithm, the second control algorithm having a VoIP call processing algorithm, the second control algorithm stored in the second memory;
- d) a modem, the modem adapted to the second processor, the modem providing an Internet connection;

the sensor detects the intruder and sends a first signal to the first processor, the first control algorithm detects the first signal and subsequently sends a second signal to the second processor, the second control algorithm detects the second signal and subsequently establishes the voice only VoIP call to the remote device, the call

established through the modem and the Internet connection, the remote device accessible to the second control algorithm through the modem and the Internet connection.

Claim 17 (new): The VoIP alarm apparatus of claim 15, wherein the peripheral device further comprises a video camera, the video camera adapted to the first processor, the video camera generates images of the physical locality of the sensor and transfers these images to the first processor, the first processor transfers the images to the system control module, the system control module transfers these images to the remote device through the VoIP call.

Claim 18 (new): The VoIP alarm apparatus of claim 15, wherein the first control algorithm includes a VoIP call processing algorithm.

Claim 19 (new): The VoIP alarm apparatus of claim 15, wherein the remote device is attached to the Internet, or an internet, or a public switched telephone network or a cellular network.

Claim 20 (new): The VoIP alarm apparatus of claim 15, wherein the sensor is connected to the system control module, the sensor detects the intruder and signals the system control module directly.

Claim 21 (new): The VoIP alarm apparatus of claim 15, wherein the peripheral device further comprises a speaker, the speaker adapted to the first processor, the speaker converts audio information from the first processor into sound energy in the physical locality of the sensor.

Claim 22 (new): The VoIP alarm apparatus of claim 21, wherein the peripheral device further comprises:

a) a keypad for user input, the keypad is adapted to the first processor;

- b) a display for prompting a user with menus and status information, the display is adapted to the first processor;

the keypad and display providing intercom functionality.

Claim 23 (new): The VoIP alarm apparatus of claim 21, wherein the peripheral device further comprises a doorbell button.

Claim 24 (new): The VoIP alarm apparatus of claim 15, wherein the modem is a cable modem, or a GPRS or CDMA cellular modem, or a Digital Subscriber Line modem such as an Asymmetric DSL modem, a High speed DSL modem, a Very high speed DSL modem, or DSL-Lite modem.

Claim 25 (new): The VoIP alarm apparatus of claim 15, wherein the system control module is an IBM compatible personal computer.

Claim 26 (new): The VoIP alarm apparatus of claim 15, wherein the alarm apparatus further comprises:

- a) a first Bluetooth™ radio adapted to the first processor, the first processor running a Bluetooth™ wireless communication protocol stack;
- b) a second Bluetooth™ radio adapted to the second processor, the second processor running a Bluetooth™ wireless communication protocol stack;

the second Bluetooth™ radio communicates with the first Bluetooth™ radio.

Claim 27 (new): The VoIP alarm apparatus of claim 15, wherein the connection between the system control module and the peripheral device is a Bluetooth™ connection.

Claim 28 (new): The VoIP alarm apparatus of claim 15, wherein the connection between the system control module and the peripheral device is wireless or wired Ethernet.

Claim 29 (new): The VoIP alarm apparatus of claim 15, wherein the remote device is an IP enabled telephone, or a cellular phone, or a computer, or a POTS telephone, or a cordless phone, or a multimedia PC, or a PDA, or a pager, or a fax machine.

Claim 30 (new): The VoIP alarm apparatus of claim 17, wherein the second control algorithm further comprises a conferencing bridge algorithm, the conferencing bridge algorithm providing a VoIP audio and/or video conference between the peripheral device and a plurality of remote devices.

Claim 31 (new): The VoIP alarm apparatus of claim 15, wherein the second control algorithm further comprises a Dual-Tone Multi-Frequency (DTMF) detection algorithm, the DTMF detection algorithm detects DTMF tones from a remote device.

Claim 32 (new): The VoIP alarm apparatus of claim 15, wherein the VoIP call processing algorithm includes a Session Initiation Protocol (SIP) software stack, the SIP stack used for VoIP call signalling between the system control module and the remote device.

Claim 33 (new): The VoIP alarm apparatus of claim 15, wherein the VoIP call processing algorithm includes a H.323 software stack, the H.323 stack used for VoIP call signalling between the system control module and the remote device.

Claim 34 (new): The VoIP alarm apparatus of claim 15, wherein the VoIP call processing algorithm includes a Real-time Transport Protocol (RTP) software stack, the RTP stack used to send and receive audio and video information through the VoIP call.

Claim 35 (new): The VoIP alarm apparatus of claim 32, wherein the VoIP call is an Instant Message.

Claim 36 (new): A method of notifying a remote device of an intrusion by an intruder into a residential, commercial or industrial premise, the method comprising the steps of:

- a) detecting the intruder using a sensor;
- b) the sensor communicating the intrusion detection to a peripheral device;
- c) the peripheral device communicating the intrusion detection to a system control module;
- d) the system control module establishing a VoIP call to the remote device using a VoIP call processing algorithm;
- e) the system control module instructing the peripheral device to send audio information to the system control module from a microphone on the peripheral device;
- f) the system control module sending the audio information from the peripheral device to the remote device.

Claim 37 (new): The method of notifying a remote device of claim 36, the method further comprising the steps of:

- a) detecting the intruder using the sensor;
- b) the sensor communicating the intrusion detection to a first peripheral device;

- c) the first peripheral device communicating the intrusion detection to the system control module;
- d) the system control module establishing the VoIP call to the remote device using the VoIP call processing algorithm;
- e) the system control module instructing the first peripheral device to send audio information to the system control module from a first microphone on the first peripheral device;
- f) the system control module sending the audio information from the first peripheral device to the remote device;
- g) the system control module detecting the intruder is out of range of the first peripheral device;
- h) the system control module detecting the intruder is in range of a second peripheral device;
- i) the system control module instructing the second peripheral device to send audio information to the system control module from a second microphone on the second peripheral device;
- j) the system control module sending the audio information from the second peripheral device to the remote device through the existing VoIP call;
- k) the system control module instructing the first peripheral device to stop sending audio information.

Claim 38 (new): The method of notifying a remote device of claim 36, the method further comprising the steps of:

- a) a remote user registering with a registrar presence agent indicating the remote user's availability and a remote device address on which to be reached;
- b) the system control module sending a SIP subscribe request to the registrar presence agent;
- c) the registrar presence agent notifying the system control module of the availability of the remote user and the remote device address;
- g) detecting the intruder using a sensor;
- h) the sensor communicating the intrusion detection to a peripheral device;
- i) the peripheral device communicating the intrusion detection a system control module;
- j) the system control module establishing a VoIP call to the remote device using a VoIP call processing algorithm;
- k) the system control module instructing the peripheral device to send audio information to the system control module from a microphone on the peripheral device;
- l) the system control module sending the audio information from the peripheral device to the remote device.